

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	(current near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and torque and (extract\$4 near4 torque) and (compar\$4 near4 torque) and ((power near4 line) near4 (brok\$4 break\$4)) and ((exceed\$4 threshold (greater\$2 adj2 than) greater) near9 torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:13
S2	12	(current near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and torque and ((judg\$4 compar\$4) near9 torque) and ((power near4 (cable line)) near4 (brok\$4 break\$4)) and ((exceed\$4 threshold (greater\$2 adj2 than) greater) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:16
S3	26	(current near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and torque and ((judg\$4 compar\$4) near9 torque) and ((power near9 (wire cable line)) near9 (brok\$4 break\$4)) and ((exceed\$4 threshold (greater\$2 adj2 than) greater) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:27
S4	78	(current near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and torque and ((power near9 (wire cable line)) near9 (brok\$4 break\$4)) and ((exceed\$4 threshold (greater\$2 adj2 than) greater) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:20
S5	47	(current near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and torque and ((judg\$4 compar\$4) near9 torque) and ((power near9 (wire cable line)) near9 (brok\$4 break\$4 disconnect\$4)) and ((exceed\$4 threshold (greater\$2 adj2 than) greater) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:25
S6	21	S5 not S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:23

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S7	26	(current near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and torque and ((judg\$4 compar\$4) near9 torque) and (((ac power) near9 (wire cable line)) near9 (brok\$4 break\$4 )) and ((exceed\$4 threshold (greater\$2 adj2 than) greater) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:30
S8	14	S7 not S2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:27
S9	31	(current near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and torque and ((judg\$4 compar\$4) near9 torque) and (((ac power) near9 (wire cable line)) near9 (brok\$4 break\$4 fault\$4 malfunction\$4 )) and ((exceed\$4 threshold (greater\$2 adj2 than) greater) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:37
S10	6732	((ac power main) near9 (wire cable line)) near9 (brok\$4 break\$4 fault\$4 malfunction\$4 ).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:38
S11	80	((ac power main) near9 (wire cable line)) near9 (brok\$4 break\$4 fault\$4 malfunction\$4 ).ab. and torque	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:41
S12	41	((ac power main) near9 (wire cable line)) near9 (brok\$4 break\$4 fault\$4 malfunction\$4 ).ab. and torque and ((power current) near4 (sens\$4 detect\$4 monitor\$4 measur\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:45
S13	34	((ac power main) near9 (wire cable line)) near9 (brok\$4 break\$4 fault\$4 malfunction\$4 ).ab. and torque and ((power current) near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 14:58
S14	0	("2003/0058589").URPN.	USPAT	OR	ON	2007/06/20 14:52
S15	7	("4600835"   "4834201"   "5304912"   "5306888"   "5572142"   "5623190"   "5650708").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/20 14:55

## EAST Search History

S16	23	((ac power main) near9 (wire cable line)) near9 (brok\$4 break\$4 broken\$2 sever\$4).ab. and torque and ((power current) near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line (broken\$2 adj2 line))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 16:28
S17	11	((ac power main) near9 (wire cable line)) near9 (brok\$4 break\$4 broken\$2 sever\$4).ab. and torque and ((power current) near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line (broken\$2 adj2 line)) and (differenc\$4 differential subtract\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 16:36
S18	42	(( (wire cable line)) near9 (brok\$4 break\$4 broken\$2 sever\$4).ab. and torque and ((power current) near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line (broken\$2 adj2 line)) and (differenc\$4 differential subtract\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 16:39
S19	44	(( (wire cable line)) near9 (brok\$4 break\$4 broken\$2 sever\$4).ab. and torque and ((power current) near4 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line (broken\$2 adj2 line)) and (differenc\$4 differential subtract\$4 deviat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/21 11:18
S20	33	S19 not S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/20 16:49

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S21	29	(( (wire cable line)) near9 (brok\$4 break\$4 broken\$2 severed)).ab. and torque and ((power current) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:06
S22	14	"6121749"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/22 16:25
S23	55	(( (wire cable line)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. and torque and ((power current) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:08
S24	30	(( (wire cable line)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. and torque and ((power current) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:23
S25	30	(( (wire cable line bus)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. and torque and ((power current) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:23

## EAST Search History

S26	30	(( (wire cable line bus)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4).ab. and torque and ((power current) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and current and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:24
S27	32	(( (wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4).ab. and torque and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:26
S28	2	S27 not S26	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:25
S29	53	(( (wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4).clm. and torque and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:27
S30	85	S29 not5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:26
S31	40	S29 not S26	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:26

## EAST Search History

S32	795	(( (wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4) same (sens\$4 detect\$4 )) and torque and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:30
S33	311	(( (wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4) near9 (sens\$4 detect\$4 )) and torque and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:37
S34	28	( ( ((power ac main) near4 (wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4) near9 (sens\$4 detect\$4 )) and torque and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/23 20:38

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S35	31	( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 detect\$4 )) and torque and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 05:54
S36	3	("5623190").URPN.	USPAT	OR	ON	2007/06/29 05:50
S37	363	( ((wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and torque and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same torque)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 06:07
S38	165	S37 and ( (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) same ((differenc\$4 differential subtract\$4 deviat\$4) same torque))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 06:05
S39	20	S38 and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 06:06

## EAST Search History

S40	183	(( ((wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 06:10
S41	183	S40 and (( ((wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 06:08
S42	18	S40 and (( ((wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 06:08
S43	61	(( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 06:53

## EAST Search History

S44	96	( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (greater\$2 adj2 than) greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 07:01
S45	21	S44 and ( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 06:55
S46	99	( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 07:05
S47	3	S46 not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 07:03

## EAST Search History

S48	94	( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4))) and (current same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) )	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 07:07
S49	94	( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4))) and ((current same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) ) overcurrent)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 07:08

## EAST Search History

S50	94	<p>( ((power ac main supply) near4          (wire cable line bus conductor))          near9 (abnormal\$4 fault\$4          malfunction\$4 fail\$4 brok\$4          break\$4 broken\$2 severed          disconnect\$4) ) near9 (sens\$4          determin\$4 detect\$4 )) and          (current near4 (magnetic\$4          magnetiz\$4 magnetization\$4)) and          ((power current voltage) near9          (sens\$4 detect\$4 monitor\$4          measur\$4)) and (judg\$4          compar\$4 exceed\$4 threshold          (higher\$2 adj2 than) (more\$2 adj2          than) (greater\$2 adj2 than) higher          above greater) and (wire cable          line bus conductor (broken\$2 adj2          line)) and ((differenc\$4 differential          subtract\$4 deviat\$4) same          (current near4 (magnetic\$4          magnetiz\$4 magnetization\$4)))          and ((current same ((higher\$2          adj2 than) (more\$2 adj2 than)          (greater\$2 adj2 than) higher          above greater) ) overcurrent          (over\$2 adj2 current))</p>	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 07:09
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## EAST Search History

S51	71	(( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4))) and (((current same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) ) overcurrent (over\$2 adj2 current)) same (differenc\$4 differential subtract\$4 deviat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:28
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## EAST Search History

S52	71	<p>( ((power ac main supply) near4          (wire cable line bus conductor))          near9 (abnormal\$4 fault\$4          malfunction\$4 fail\$4 brok\$4          break\$4 broken\$2 severed          disconnect\$4) ) near9 (sens\$4          determin\$4 detect\$4 )) and          (current near4 (magnetic\$4          magnetiz\$4 magnetization\$4)) and          ((power current voltage) near9          (sens\$4 detect\$4 monitor\$4          measur\$4)) and (judg\$4          compar\$4 exceed\$4 threshold          (higher\$2 adj2 than) (more\$2 adj2          than) (greater\$2 adj2 than) higher          above greater) and (wire cable          line bus conductor (broken\$2 adj2          line)) and ((differenc\$4 differential          subtract\$4 deviat\$4) same          (current near4 (magnetic\$4          magnetiz\$4 magnetization\$4)))          and (((power current) same          ((higher\$2 adj2 than) (more\$2          adj2 than) (greater\$2 adj2 than)          higher above greater) )          overcurrent (over\$2 adj2 current))          same (differenc\$4 differential          subtract\$4 deviat\$4))</p>	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 07:36
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## EAST Search History

S53	71	( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4))) and (((power voltage current) same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) ) overcurrent (over\$2 adj2 current)) same (differenc\$4 differential subtract\$4 deviat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:02
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## EAST Search History

S54	180	( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current voltage power)) and (( ((power voltage current) same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) ) overcurrent (over\$2 adj2 current)) same (differenc\$4 differential subtract\$4 deviat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:27
S55	180	S54 not S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 07:38
S56	109	S54 not S51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 07:38
S57	52	S56 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).clm.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:20
S58	57	S56 not S57	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 08:10

## EAST Search History

S59	29	(US-20030058589-\$ or US-20030178960-\$ or US-20010012984-\$ or US-20030002235-\$).did. or (US-7215518-\$ or US-5623190-\$ or US-7098624-\$ or US-5835872-\$ or US-6906492-\$ or US-5357179-\$ or US-6462293-\$ or US-5306888-\$ or US-4600835-\$ or US-5765378-\$ or US-5376868-\$ or US-4841405-\$ or US-5768077-\$ or US-5202812-\$ or US-6836121-\$ or US-6826024-\$ or US-6426633-\$ or US-6392422-\$ or US-5805397-\$ or US-5170105-\$ or US-4723104-\$ or US-4450497-\$ or US-6636823-\$ or US-6552260-\$).did. or (JP-2002022567-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2007/06/29 09:02
S60	16	S59 and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:03
S61	3	("5623190").URPN.	USPAT	OR	ON	2007/06/29 09:03
S62	10	("4442393"   "4680526"   "4764712"   "4914386"   "5160878"   "5278485"   "5341081").PN. OR ("5623190").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/29 09:03
S63	4	S62 and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:09
S64	2	"20070064359"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:07
S65	6	S62 and ((current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) or (id\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:15
S66	35395	(current near4 (magnetiz\$4 magnetization\$4 (d\$1 adj2 axis) (i\$1 adj1 d\$2) id\$1) )	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:22
S67	1584	S66 and ((q\$1 adj2 axis) (i\$1 adj1 q\$2) iq\$1 ) and torque	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:23

## EAST Search History

S68	32	S67 and (((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:25
S69	14	S68 and (((current same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) ) overcurrent (over\$2 adj2 current)) same (differenc\$4 differential subtract\$4 deviat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/06/29 09:28
S70	29	(US-20010012984-\$ or US-20030058589-\$ or US-20030178960-\$ or US-20030002235-\$).did. or (US-7215518-\$ or US-7098624-\$ or US-5623190-\$ or US-5357179-\$ or US-5765378-\$ or US-5376868-\$ or US-5306888-\$ or US-4841405-\$ or US-4600835-\$ or US-6906492-\$ or US-6462293-\$ or US-5835872-\$ or US-5768077-\$ or US-5202812-\$ or US-6826024-\$ or US-6426633-\$ or US-6392422-\$ or US-6836121-\$ or US-5805397-\$ or US-4723104-\$ or US-4450497-\$ or US-6552260-\$ or US-6636823-\$ or US-5170105-\$).did. or (JP-2002022567-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2007/07/06 14:29
S71	6	S70 and (brak\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 14:31
S72	15	S70 and (brak\$4 stop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:02
S73	15	S70 and (brak\$4 stop\$4) and (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:04
S74	6	S70 and (brak\$4 ) and (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:05

## EAST Search History

S75	71	(( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4))) and (((current same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) ) overcurrent (over\$2 adj2 current)) same (differenc\$4 differential subtract\$4 deviat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:20
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## EAST Search History

S76	181	( ((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (current near4 (magnetic\$4 magnetiz\$4 magnetization\$4)) and ((power current voltage) near9 (sens\$4 detect\$4 monitor\$4 measur\$4)) and (judg\$4 compar\$4 exceed\$4 threshold (higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((differenc\$4 differential subtract\$4 deviat\$4) same (current voltage power)) and (( ((power voltage current) same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) ) overcurrent (over\$2 adj2 current)) same (differenc\$4 differential subtract\$4 deviat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:47
S77	110	S76 not S75	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:20
S78	3	S77 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).clm.) and brak\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:25
S79	3612	((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).clm.) and brak\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:26

## EAST Search History

S80	7	S76 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).clm.) and brak\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:59
S81	1053	((((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and (wire cable line bus conductor (broken\$2 adj2 line)) and ((((power voltage current) same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) ) overcurrent (over\$2 adj2 current)) same (differenc\$4 differential subtract\$4 deviat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 15:48
S82	35	S81 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).clm.) and brak\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 16:42
S83	15	S81 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab.) and brak\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 16:15

## EAST Search History

S86	68	S81 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4))) and brak\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 19:33
S87	53	S86 not S83	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 16:54
S88	49	S86 not (S70 S83)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 16:54
S89	456	S81 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4))) and (stop\$4 brak\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 19:35
S90	304	S81 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4))) and (stop\$4 brak\$4) same (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/06 19:36

## EAST Search History

S91	29	(US-20010012984-\$ or US-20030058589-\$ or US-20030178960-\$ or US-20030002235-\$).did. or (US-7215518-\$ or US-7098624-\$ or US-5623190-\$ or US-5357179-\$ or US-5765378-\$ or US-5376868-\$ or US-5306888-\$ or US-4841405-\$ or US-4600835-\$ or US-6906492-\$ or US-6462293-\$ or US-5835872-\$ or US-5768077-\$ or US-5202812-\$ or US-6826024-\$ or US-6426633-\$ or US-6392422-\$ or US-6836121-\$ or US-5805397-\$ or US-4723104-\$ or US-4450497-\$ or US-6552260-\$ or US-6636823-\$ or US-5170105-\$).did. or (JP-2002022567-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2007/07/07 12:01
S92	1053	((((power ac main supply) near4 (wire cable line bus conductor)) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)) near9 (sens\$4 determin\$4 detect\$4 )) and ((wire cable line bus conductor (broken\$2 adj2 line)) and (((power voltage current) same ((higher\$2 adj2 than) (more\$2 adj2 than) (greater\$2 adj2 than) higher above greater) ) overcurrent (over\$2 adj2 current)) same (differenc\$4 differential subtract\$4 deviat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 12:01
S93	15	S92 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab.) and brak\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 12:01

## EAST Search History

S94	68	S92 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4))) and brak\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 13:28
S95	49	S94 not (S91 S93)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 12:01
S96	5	S92 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4))) and ((start\$4 near4 motor) near4 (no\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 12:36
S97	5	S92 and (((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. ((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4))) and ((start\$4 near4 motor) near4 (no\$1)) and (start\$4 stop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 12:37
S98	5	S92 and ((start\$4 near4 motor) near4 (no\$1)) and (start\$4 stop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 13:29
S99	9	((wire cable line bus conductor) near9 (abnormal\$4 fault\$4 malfunction\$4 fail\$4 brok\$4 break\$4 broken\$2 severed disconnect\$4)).ab. and ((start\$4 near4 motor) near4 (no\$1)) and (start\$4 stop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/07 13:31

## EAST Search History

S10 0	31	(US-20010012984-\$ or US-20030002235-\$ or US-20030058589-\$ or US-20030178960-\$).did. or (US-7098624-\$ or US-6906492-\$ or US-5357179-\$ or US-5283507-\$ or US-5202812-\$ or US-6836121-\$ or US-6826024-\$ or US-6636823-\$ or US-6552260-\$ or US-6426633-\$ or US-6392422-\$ or US-5805397-\$ or US-5768077-\$ or US-5170105-\$ or US-4723104-\$ or US-4450497-\$ or US-6332506-\$ or US-7215518-\$ or US-5835872-\$ or US-5623190-\$ or US-6462293-\$ or US-5306888-\$ or US-4600835-\$ or US-5765378-\$ or US-5376868-\$ or US-4841405-\$).did. or (JP-2002022567-\$).did.	US-PGPUB; USPAT; JPO	OR	ON	2007/07/08 21:07
S10 1	16	S100 and (ac (alternat\$4 near4 current))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 21:08
S10 2	4	S100 and (ac (alternat\$4 near4 current)) and synchronous\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 21:18
S10 3	4	S100 and (ac (alternat\$4 near4 current)) and (servo\$4 synchronous\$4 (servo\$4 adj2 motor) (servo\$4 adj2 mechanism))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 21:19
S10 4	10	("4442393"   "4680526"   "4764712"   "4914386"   "5160878"   "5278485"   "5341081").PN. OR ("5623190").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/08 22:02
S10 5	0	("7215518").URPN.	USPAT	OR	ON	2007/07/08 22:03
S10 6	7	("4600835"   "4834201"   "5304912"   "5306888"   "5572142"   "5623190"   "5650708").PN. OR ("7215518").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/08 22:21
S10 7	21	((d\$2 adj axis) near4 (exceed\$4 (greater\$2 adj2 than) greater)) and ((d\$2 adj axis ) near4 (differenc\$4 deviat\$4)) and current	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 22:24

## EAST Search History

S10 8	12	((d\$2 adj axis) near4 (exceed\$4 (greater\$2 adj2 than) greater)) and ((d\$2 adj axis ) near4 (differenc\$4 deviat\$4)) and current and (short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 22:28
S10 9	12	S107 and (short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4 defect\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 22:28
S11 0	12	(((d\$2 adj axis) magnitiz\$4 magnitization) near4 (exceed\$4 (greater\$2 adj2 than) greater)) and (((d\$2 adj axis ) magnitiz\$4 magnitization) near4 (differenc\$4 deviat\$4)) and current and (defect\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 22:35
S11 1	12	(((d\$2 adj axis) magnitiz\$4 magnitization) near4 (exceed\$4 (greater\$2 adj2 than) greater)) and (((d\$2 adj axis ) magnitiz\$4 magnitization) near4 (differenc\$4 deviat\$4)) and current and (defect\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4) and (exceed\$4 (greater\$2 adj2 than) greater)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 23:07
S11 2	21	("20030121716"   "5602451"   "5740880"   "5973463"   "6081093"   "6198256"   "6281656"   "6338015"   "6344725"   "6427104"   "6427105"   "6504336"   "6577957"   "6608456"   "6608457"   "6639379"   "6687590"   "6696807"   "6700343").PN. OR ("6906492").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/08 23:06

## EAST Search History

S11 3	1075	((d\$2 adj axis) id\$1 magnitiz\$4 magnitization) near9 (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)) and (((d\$2 adj axis ) magnitiz\$4 id\$1 magnitization) near4 (differenc\$4 subtract\$4 deviat\$4)) and current and (defect\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4) and (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 23:11
S11 4	721	((d\$2 adj axis) id\$1 magnitiz\$4 magnitization) near4 (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)) and (((d\$2 adj axis ) magnitiz\$4 id\$1 magnitization) near4 (differenc\$4 subtract\$4 deviat\$4)) and current and (defect\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4) and (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 23:19
S11 5	63	S114 and "318"/\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 23:15
S11 6	42	S114 and "318"/\$ and (differenc\$4 subtract\$4 deviat\$4) and ((defect\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4) same (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 23:26
S11 7	753	((d\$2 adj axis) id\$1 magnitiz\$4 magnitization) near4 (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)) and (((d\$2 adj axis ) magnitiz\$4 id\$1 magnitization) near4 (differenc\$4 subtract\$4 deviat\$4)) and current and (defect\$4 brok\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4) and (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 23:21

## EAST Search History

S11 8	794	((d\$2 adj axis) id\$1 magnitiz\$4 magnitization) near4 (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)) and (((d\$2 adj axis ) magnitiz\$4 id\$1 magnitization) near4 (differenc\$4 subtract\$4 deviat\$4)) and current and (defect\$4 brok\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4 error\$4) and (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/08 23:26
S11 9	794	((d\$2 adj axis) id\$1 magnitiz\$4 magnitization) near4 (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)) and (((d\$2 adj axis ) magnitiz\$4 id\$1 magnitization) near4 (differenc\$4 subtract\$4 deviat\$4)) and current and (defect\$4 brok\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4 error\$4 erroneous\$4) and (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/09 00:08
S12 0	83	S119 and "318"/\$ and (differenc\$4 subtract\$4 deviat\$4) and ((defect\$4 short\$4 malfunction\$4 error erroneous broken abnormal\$4 fault\$4 fail\$4) same (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/09 00:13
S12 1	846	((d\$2 adj axis) id\$1 magnitiz\$4 magnitization) near4 (exceed\$4 larger (larger\$2 adj2 than) (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)) and (((d\$2 adj axis ) magnitiz\$4 id\$1 magnitization) near4 (differenc\$4 subtract\$4 deviat\$4)) and current and (defect\$4 brok\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4 error\$4 erroneous\$4) and (exceed\$4 larger (larger\$2 adj2 than) (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/09 00:37

## EAST Search History

S12 2	92	S121 and "318"/\$ and (difference\$4 subtract\$4 deviat\$4) and ((defect\$4 short\$4 malfunction\$4 error erroneous broken abnormal\$4 fault\$4 fail\$4) same (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/09 00:45
S12 3	1381	((d\$2 adj axis) id\$1 magnitiz\$4 magnitization) near4 (exceed\$4 larger (larger\$2 adj2 than) (greater\$2 adj2 than) (more\$2 adj2 than) greater above more)) and (((d\$2 adj axis ) magnitiz\$4 id\$1 magnitization) near4 (difference\$4 subtract\$4 deviat\$4 variat\$4) and current and (defect\$4 brok\$4 short\$4 malfunction\$4 abnormal\$4 fault\$4 fail\$4 error\$4 erroneous\$4) and (exceed\$4 larger (larger\$2 adj2 than) (greater\$2 adj2 than) (more\$2 adj2 than) greater above more))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/09 00:37
S12 4	107	S123 and "318"/\$ and (difference\$4 subtract\$4 deviat\$4) and ((defect\$4 short\$4 malfunction\$4 error erroneous broken abnormal\$4 fault\$4 fail\$4) same (exceed\$4 (greater\$2 adj2 than) (more\$2 adj2 than) greater above more))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/09 00:46

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	((magnetiz\$4 near4 current) and (current near4 detect\$4) and (power near4 line) and broken and difference).clm.	US-PGPUB	OR	ON	2007/07/09 12:34